

<!--StartFragment-->RESULT 2

ABA00656

ID ABA00656 standard; cDNA; 3400 BP.

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AC ABA00656;

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DT 19-FEB-2003 (first entry)

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DE Human ENZM-4 cDNA, incyte ID No: 3535146CB1.

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KW Gene; ENZM; cardiovascular disorder; arteriovenous fistula; prostate; atherosclerosis; hypertension; Raynaud's disease; aneurysm; cervix; varicose vein; thrombophlebitis; congestive heart failure; brain; breast; angina pectoris; ischaemic; heart disease; autoimmune; inflammation; acquired immunodeficiency syndrome; anaemia; asthma; Crohn's disease; neurological disorder; epilepsy; Huntington's disease; dementia; stroke; Alzheimer's disease; Creutzfeldt-Jakob disease; multiple sclerosis; cerebral palsy; Parkinson's disease; anxiety; schizophrenia; amnesia; metabolic disorder; Addison's disease; goitre; infection; sarcoma; pneumonia; hepatitis; influenza; immune deficiency; thymic dysplasia; severe combined immunodeficiency disease; reproduction; infertility; endometriosis; prostatitis; Peyronie's disease; impotence; eye disorder; glaucoma; ocular hypertension; cell proliferation; psoriasis; myeloma; polycythemia vera; cancer; adenocarcinoma; leukemia; lymphoma; melanoma; MDMCSF; ss.

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OS Homo sapiens.

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FH Key Location/Qualifiers

FT CDS 66. .3002

FT /*tag= a

FT /product= "ENZM-4 protein"

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PN WO200283873-A2.

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PD 24-OCT-2002.

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PF 10-APR-2002; 2002WO-US015253.

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PR 13-APR-2001; 2001US-0283793P.

PR 16-MAY-2001; 2001US-0291544P.

PR 25-MAY-2001; 2001US-0293572P.

PR 27-JUL-2001; 2001US-0308182P.

PR 09-AUG-2001; 2001US-0311447P.

PR 29-AUG-2001; 2001US-0315874P.

PR 14-SEP-2001; 2001US-0322181P.

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PA (INCY-) INCYTE GENOMICS INC.

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PI Tang YT, Yue H, Sanjanwala MM, Ramkumar J, Yao MG, Swarnakar A;
 PI Ding L, Elliott VS, Griffin JA, Li JX, Lal PG, Lu DAM, Lu Y;
 PI Gorvad AE, Forsythe IJ, Duggan BM, Thangavelu K, Emerling BM;
 PI Hafalia AJA, Baughn MR, Becha S, Sprague WW;
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 DR WPI; 2003-075542/07.
 DR P-PSDB; AAG79674.
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 PT New human enzymes and polynucleotides, useful for diagnosing, treating or
 PT preventing cardiovascular disorders (e.g. aneurysms), neurological
 PT disorders (e.g. Parkinson's disease), cancers or autoimmune/inflammatory
 PT disorders.
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 PS Claim 5; Page 194-95; 203pp; English.
 XX
 CC The sequences given in ABA00653-64 encode human enzymes designated ENZM.
 CC The polypeptide or polynucleotide of the invention are useful for
 CC treating a disease or condition associated with decreased expression of
 CC functional ENZM. Antagonists of ENZM are useful for treating a disease or
 CC condition associated with overexpression of functional ENZM. Anti-ENZM
 CC antibodies are particularly useful for diagnosing, treating or preventing
 CC cardiovascular disorders (e.g. arteriovenous fistula, atherosclerosis,
 CC hypertension, Raynaud's disease, aneurysms, varicose veins,
 CC thrombophlebitis, congestive heart failure, angina pectoris, ischaemic
 CC heart disease or rheumatic heart disease), autoimmune/inflammatory
 CC disorders (e.g. acquired immunodeficiency syndrome, anaemia, asthma, or
 CC Crohn's disease), neurological disorders (e.g. epilepsy, Huntington's
 CC disease, dementia, stroke, Alzheimer's disease, Creutzfeldt-Jakob
 CC disease, multiple sclerosis, cerebral palsy, Parkinson's disease,
 CC anxiety, schizophrenia or amnesia), metabolic disorders (e.g. Addison's
 CC disease or goitre), infectious disorders (e.g. viral infection,
 CC pneumonia, hepatitis or influenza), immune deficiencies (e.g. thymic
 CC dysplasia or severe combined immunodeficiency disease), reproductive
 CC disorders (e.g. infertility, endometriosis, prostatitis, Peyronie's disease
 CC or impotence), eye disorders (e.g. glaucoma or ocular hypertension), or
 CC cell proliferative disorders (e.g. psoriasis, polycythemia vera, or
 CC cancers including adenocarcinoma, leukemia, lymphoma, melanoma, myeloma,
 CC sarcoma, or cancers of the brain, breast, cervix or prostate). The
 CC protein encoded by this sequence is homologous to human MDMCSF
 XX
 SQ Sequence 3400 BP; 894 A; 809 C; 908 G; 789 T; 0 U; 0 Other;

Query Match 100.0%; Score 2934; DB 8; Length 3400;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2934; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 ATGGGCACGCGTCTGCCGCTCGTCCTGCGCCAGCTCCGCCGCCGCCAGCCCCGGGC 60
Db	66 ATGGGCACGCGTCTGCCGCTCGTCCTGCGCCAGCTCCGCCGCCAGCCCCGGGC 125

Qy	61	CCTCCGCGCCGCCTCCGTGTGCCCTGTCGCGCTAGCAGCGCGGGAGGCAGGC 120
Db	126	CCTCCGCGCCGCCTCCGTGTGCCCTGTCGCGCTAGCAGCGCGGGAGGCAGG 185
Qy	121	GGTGGCCGGGAGGGCCTGTTGGACAGCGCGGCCGAGGAATGCCAGGCCGGAGC 180
Db	186	GGTGGCCGGGAGGGCCTGTTGGACAGCGCGGCCGAGGAATGCCAGGCCGGAGC 245
Qy	181	TGCAGCCCCGGCGGCCGAACGCCCGCGCGGGACTCCATCGTCAGAGAAGTCATT 240
Db	246	TGCAGCCCCGGCGGCCGAACGCCCGCGCGGGACTCCATCGTCAGAGAAGTCATT 305
Qy	241	AATTCAAAAGAACAGTTCTAACATTGCAAGAAAAAACCTGCCTCAAGCCGGTT 300
Db	306	AATTCAAAAGAACAGTTCTAACATTGCAAGAAAAAACCTGCCTCAAGCCGGTT 365
Qy	301	GCAATTATCCAGGCAGGTGACGACAACCTGATGCAGGAAATCAACCAGAATTGGCTGAG 360
Db	366	GCAATTATCCAGGCAGGTGACGACAACCTGATGCAGGAAATCAACCAGAATTGGCTGAG 425
Qy	361	GAGGCTGGTCTGAACATCACTCACATTGCCTCCCTCCAGATAGCAGTGAAGCCGAGATT 420
Db	426	GAGGCTGGTCTGAACATCACTCACATTGCCTCCCTCCAGATAGCAGTGAAGCCGAGATT 485
Qy	421	ATAGATGAAATCTAAAGATCAATGAAGATAACCAGAGTACATGGCCTGCCCTCAGATC 480
Db	486	ATAGATGAAATCTAAAGATCAATGAAGATAACCAGAGTACATGGCCTGCCCTCAGATC 545
Qy	481	TCTGAGAACTTGTCTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGAT 540
Db	546	TCTGAGAACTTGTCTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGAT 605
Qy	541	GGAGTAACAGACATAAACCTGGGAAGCTGGTGCAGGGATGCCATGAATTTGTT 600
Db	606	GGAGTAACAGACATAAACCTGGGAAGCTGGTGCAGGGATGCCATGAATTTGTT 665
Qy	601	TCACCTGTTGCCAAAGCTGTAATTGAACCTCTTGAAAATCAGGTGTCAACCTAGATGGA 660
Db	666	TCACCTGTTGCCAAAGCTGTAATTGAACCTCTTGAAAATCAGGTGTCAACCTAGATGGA 725
Qy	661	AAGAAGATTTGGTAGTGGGGCCATGGTCTTGGAAAGCTGCTCTACAATGCCTGTT 720
Db	726	AAGAAGATTTGGTAGTGGGGCCATGGTCTTGGAAAGCTGCTCTACAATGCCTGTT 785
Qy	721	CAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAAAACACGCCAGCTCAAAGCAAG 780
Db	786	CAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAAAACACGCCAGCTCAAAGCAAG 845

Qy 781 CTTCACGAGGCTGACATTGGTGCCTAGGCTCACCTAACGCCAGAAGAGATTCCCCTACT 840
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 846 CTTCACGAGGCTGACATTGGTGCCTAGGCTCACCTAACGCCAGAAGAGATTCCCCTACT 905

Qy 841 TGGATACAACCAGGAACACTGTTCTCAACTGCTCCATGACTTCCTGTCAGGGAAGGTT 900
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 Db 906 TGGATACAACCAGGAACACTGTTCTCAACTGCTCCATGACTTCCTGTCAGGGAAGGTT 965

Qy 901 GGGTGTGGCTCTCCAAGAACATACATTGGTGGACTCATTGAGGAAGATGATGTGATTCTC 960
 |||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 966 GGGTGTGGCTCTCCAAGAACATACATTGGTGGACTCATTGAGGAAGATGATGTGATTCTC 1025

Qy 961 CTTGCTGCAGCTCTGCGAATTCAAACATGGTCAGTAGTGGAAGGAGATGGCTCGTGAA 1020
 |||||||||||||||||||||||||||||||||||||||||||||||
 Db 1026 CTTGCTGCAGCTCTGCGAATTCAAACATGGTCAGTAGTGGAAGGAGATGGCTCGTGAA 1085

Qy 1021 CAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCGTGC 1080
 |||||||||||||||||||||||||||||||||||||||||||||||
 Db 1086 CAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCGTGC 1145

Qy 1081 AGTGACATTGAGATTCAAGAGGACAAACTCCAAAAGCTGTGGATGTCCTGCCAAGGAG 1140
 |||||||||||||||||||||||||||||||||||||||||||
 Db 1146 AGTGACATTGAGATTCAAGAGGACAAACTCCAAAAGCTGTGGATGTCCTGCCAAGGAG 1205

Qy 1141 ATTGGATTGCTTGCAGATGAAATTGAAATCTATGGCAAAAGCAAAGCTACGTTG 1200
 |||||||||||||||||||||||||||||||||||||||||||
 Db 1206 ATTGGATTGCTTGCAGATGAAATTGAAATCTATGGCAAAAGCAAAGCTACGTTG 1265

Qy 1201 TCCGTGCTAGAAAGGTTAAGGATCAAGCAGATGGAAAATACGTCTAGTTGCTGGATC 1260
 |||||||||||||||||||||||||||||||||||||||
 Db 1266 TCCGTGCTAGAAAGGTTAAGGATCAAGCAGATGGAAAATACGTCTAGTTGCTGGATC 1325

Qy 1261 ACACCCACCCCTTGGAGAAGGGAAAGAGCACAGTCACCATGGGCTTGTGCAGGCTCTG 1320
 |||||||||||||||||||||||||||||||||||||||
 Db 1326 ACACCCACCCCTTGGAGAAGGGAAAGAGCACAGTCACCATGGGCTTGTGCAGGCTCTG 1385

Qy 1321 ACCGCACACCTGAATGTCAACTCCTTGCCTGCTTGAGGCAGCCTCCAAAGGACCGACG 1380
 |||||||||||||||||||||||||||||||||||||||
 Db 1386 ACCGCACACCTGAATGTCAACTCCTTGCCTGCTTGAGGCAGCCTCCAAAGGACCGACG 1445

Qy 1381 TTTGGAGTGAAGGAGGAGCCGCGGGTGGATATGCCAGGTATCCCCATGGAGGAG 1440
 |||||||||||||||||||||||||||||||||||||||
 Db 1446 TTTGGAGTGAAGGAGGAGCCGCGGGTGGATATGCCAGGTATCCCCATGGAGGAG 1505

Qy 1441 TTCAACCTTCACTGACTGGAGACATCCACGCCATACCGCTGCCAATAACTTGCTGGCT 1500
 |||||||||||||||||||||||||||||||||||||||
 Db 1506 TTCAACCTTCACTGACTGGAGACATCCACGCCATACCGCTGCCAATAACTTGCTGGCT 1565

Qy 1501 GCCGCCATCGACACGAGGATTCTCATGAAAACACGCCAACAGATAAGGCTCTGTATAAT 1560

Db	1566	GCCGCCATCGACACGAGGATTCTCATGAAAACACGCAAACAGATAAGGCTCTGTATAAT 1625
Qy	1561	CGGCTGGTTCCTTAGTGAATGGTGTCAAGAGAATTCAGAAATTAGCTTGCTCGGCTA 1620
Db	1626	CGGCTGGTTCCTTAGTGAATGGTGTCAAGAGAATTCAGCTTGCTCGGCTA 1685
Qy	1621	AAAAAAACTGGAAATAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAA 1680
Db	1686	AAAAAAACTGGAAATAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAA 1745
Qy	1681	TTTGCCCGTCTCGACATCGACCATCTACCATCACGTGGCAGAGAGTATTGGATAACAAAT 1740
Db	1746	TTTGCCCGTCTCGACATCGACCATCTACCATCACGTGGCAGAGAGTATTGGATAACAAAT 1805
Qy	1741	GACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCATTACCGG 1800
Db	1806	GACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCATTACCGG 1865
Qy	1801	CAGGCGCAGTTGACATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGAC 1860
Db	1866	CAGGCGCAGTTGACATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGAC 1925
Qy	1861	AGCCTCGCAGACATGAAGGCACGGCTGGAAAGGATGGTGGTGGCCAGTGACAAAAGCGGG 1920
Db	1926	AGCCTCGCAGACATGAAGGCACGGCTGGAAAGGATGGTGGTGGCCAGTGACAAAAGCGGG 1985
Qy	1921	CAGCCTGTGACAGCAGATGATTGGGGGTGACAGGTGCTTGACAGTTGATGAAAGAT 1980
Db	1986	CAGCCTGTGACAGCAGATGATTGGGGGTGACAGGTGCTTGACAGTTGATGAAAGAT 2045
Qy	1981	GCAATAAAACCAACCTGATGCAGACCTGGAAAGGGACACCTGTGTTCGTCATGCGGGC 2040
Db	2046	GCAATAAAACCAACCTGATGCAGACCTGGAAAGGGACACCTGTGTTCGTCATGCGGGC 2105
Qy	2041	CCTTTGCTAACATTGCTACGGCAACTCTCAGTGTGGCTGATAAAATTGCCCTGAAA 2100
Db	2106	CCTTTGCTAACATTGCTACGGCAACTCTCAGTGTGGCTGATAAAATTGCCCTGAAA 2165
Qy	2101	CTGGTTGGTGAAGAAGGATTGTAGTGACCGAAGCTGGCTTGGCTGACATCGGAATG 2160
Db	2166	CTGGTTGGTGAAGAAGGATTGTAGTGACCGAAGCTGGCTTGGCTGACATCGGAATG 2225
Qy	2161	GAGAAATTCTCAACATCAAGTGCGAGCTTCCGGCTGGTGCCAACGTGGTTGTGTTA 2220
Db	2226	GAGAAATTCTCAACATCAAGTGCGAGCTTCCGGCTGGTGCCAACGTGGTTGTGTTA 2285
Qy	2221	GTGGCAACGGTGCAGCTCTGAAGATGCATGGAGGCGGGCCAAGTGTAAACGGCTGGTGT 2280

Db 2286 GTGGCAACGGTGCAGCTCTGAAGATGCATGGAGGCGGCCAAGTGTAAACGGCTGGTGT 2345

Qy 2281 CCTCTTAAGAAAGAACATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAAAC 2340
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2346 CCTCTTAAGAAAGAACATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAAAC 2405

Qy 2341 CTCCAGAAGCAAATTCACTCAGCTCTTGGGTTCCCGTTGGCTCTGAAT 2400
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Db 2406 CTCCAGAAGCAAATTCACTCAGCTCTTGGGTTCCCGTTGGCTCTGAAT 2465

Qy 2401 GTCTTCAAGACCGACACCCGCGTGAGATTGACTTGGTGTGAGCTGCAAAGCGGGCT 2460
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Db 2466 GTCTTCAAGACCGACACCCGCGTGAGATTGACTTGGTGTGAGCTGCAAAGCGGGCT 2525

Qy 2461 GGTGCCTTGATGCAGTCCCCTGCTATCACTGGTCGGTTGGAAAAGGATCGGTGGAC 2520
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2526 GGTGCCTTGATGCAGTCCCCTGCTATCACTGGTCGGTTGGAAAAGGATCGGTGGAC 2585

Qy 2521 TTGGCTCGGGCTGTGAGAGAGGGCTGCGAGTAAAAGAACCGATTCCAGTCAGTGTATGAT 2580
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2586 TTGGCTCGGGCTGTGAGAGAGGGCTGCGAGTAAAAGAACCGATTCCAGTCAGTGTATGAT 2645

Qy 2581 GTTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTATGGAGCCAAA 2640
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2646 GTTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTATGGAGCCAAA 2705

Qy 2641 GATATTGAACCTCTCCTGAGGCACAAGCCAAAATAGATCGTTACACTAACAGGGTTT 2700
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2706 GATATTGAACCTCTCCTGAGGCACAAGCCAAAATAGATCGTTACACTAACAGGGTTT 2765

Qy 2701 GGAAATTGCCCATCTGCATGGCAAAGACCCACCTTCTATCTCACCAACCTGACAAA 2760
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2766 GGAAATTGCCCATCTGCATGGCAAAGACCCACCTTCTATCTCACCAACCTGACAAA 2825

Qy 2761 AAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGGCCAGCATAGGCGCT 2820
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2826 AAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGGCCAGCATAGGCGCT 2885

Qy 2821 GGGTCATTTACCTTGGTCGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCC 2880
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2886 GGGTCATTTACCTTGGTCGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCC 2945

Qy 2881 TGCTTTATGACATAGATCTGATACCGAAACAGAACAGAACAGTTAAAGGCTTGTTC 2934
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 2946 TGCTTTATGACATAGATCTGATACCGAAACAGAACAGAACAGTTAAAGGCTTGTTC 2999

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